TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike		
Project	Improvements to roads and drains at Kodigehalli village from 1st to 3rd cross and other roads in ward No. 08, Kodigehalli		
Consultants	TEJUS CONSULTANTS		
Contractor	M/s KRIDL		
Total Weight:	10000	gms	

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	Concrete
Sample Location	At Site/Plant	**Date of Sampling**	02.01.2019
		Date of Testing	02.01.2019

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	**100**
12.5	562	562	5.62	94.38	**90-100**
10.0	4680	5242	52.42	47.58	**40-85**
4.75	4620	9862	98.62	1.38	**0-10**
Pan	138	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to roads and drains at Kodigehalli village from 1st to 3rd cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02.01.2019	09.01.2019	7 days	8.130	22500	283	12.58	12.64
2	02.01.2019	09.01.2019	7 days	8.128	22500	284	12.62	
3	02.01.2019	09.01.2019	7 days	8.137	22500	286	12.71	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to roads and drains at Kodigehalli village from 1st to 3rd cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02.01.2019	30.01.2019	28days	8.132	22500	452	20.09	20.07
2	02.01.2019	30.01.2019	28days	8.134	22500	453	20.13	
3	02.01.2019	30.01.2019	28days	8.129	22500	450	20.00	

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Test Report on Cement

Project	Improvements to roads and drains at Kodigehalli village from 1st to 3rd cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Sample ID	Cement
Date of Sample Tested	11.01.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	344 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to roads and drains at Kodigehalli village from 1st to 3rd cross and other roads in ward No. 08, Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source	At Site/Plant	**Date of Sampling**	11.01.2019
Period of Soaking	24 hours	**Date of Testing**	11.01.2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	650	655	662	
B	Weight of oven - dry sample gm.	640	645	652	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1685	1689	1692	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.667	2.676	2.661	**2.668**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.563	1.550	1.534	**1.549**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads and drains at Kodigehalli village from 1st to 3rd cross and other roads in ward No. 08, Kodigehalli
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**Fine aggregate (River Sand/ M sand)**	**Proposed Use**	concrete
Sample Location	At Site/Plant	**Date of Sampling**	11.01.2019
		Date of Testing	11.01.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	**100**
4.75 mm	210	210	7.00	93.00	**90 - 100**
2.36 mm	282	492	16.40	83.60	**75 - 100**
1.18 mm	421	913	30.43	69.57	**55 - 90**
0.600 mm	446	1359	45.30	54.70	**35 -59**
0.300 mm	812	2171	72.37	27.63	**8-30**
0.150 mm	642	2813	93.77	6.23	**0 - 10**
Pan	187	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to roads and drains at Kodigehalli village from 1st to 3rd cross and other roads in ward No. 08, Kodigehalli	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	11.01.2019
		Date of Testing	11.01.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	**0**	**0**	**0**	100	**100**
20.00 mm	282	282	2.82	97.18	**95 - 100**
10.00 mm	4832	5114	51.14	48.86	**25 - 55**
4.75 mm	4250	9364	93.64	6.36	**0 - 10**
Pan	636	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike		
Project	Improvements to roads and drains at Kodigehalli village from 1st to 3rd cross and other roads in ward No. 08, Kodigehalli		
Consultants	TEJUS CONSULTANTS		
Contractor	M/s KRIDL		
Total Weight:	10000	gms	

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	Concrete
Sample Location	At Site/Plant	**Date of Sampling**	11.01.2019
		Date of Testing	11.01.2019

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	562	562	5.62	94.38	90-100
10.0	4682	5244	52.44	47.56	40-85
4.75	4520	9764	97.64	2.36	0-10
Pan	236	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to roads and drains at Kodigehalli village from 1st to 3rd cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	11.01.2019	18.01.2019	7 days	8.130	22500	211	9.38	9.30
2	11.01.2019	18.01.2019	7 days	8.128	22500	209	9.29	
3	11.01.2019	18.01.2019	7 days	8.132	22500	208	9.24	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to roads and drains at Kodigehalli village from 1st to 3rd cross and other roads in ward No. 08, Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	11.01.2019	25.01.2019	14days	8.135	22500	305	13.56	13.56
2	11.01.2019	25.01.2019	14days	8.120	22500	304	13.51	
3	11.01.2019	25.01.2019	14days	8.140	22500	306	13.60	

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PRECAST SLAB (CORE) TEST REPORT

ient	:	Bruhat Bangalore Mahanagara Palike
ntractor	:	M/S KRIDL
nsultants		TEJUS CONSULTANTS
me of Work	:	Improvements to roads and drains at Kodigehalli village from 1st to 3rd cross and other roads in ward No. 08, Kodigehalli
of Sample Tested	:	3
e of Testing	:	17.01.2019
hinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
de of Concrete	:	M_{20} - 250mm Thick

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	100.00	180.00	3.382	2392.28	1.80	0.960	158.10	20.13	21.74	20.87	26.09
	100.00	180.00	3.390	2397.93	1.80	0.960	158.30	20.16	21.77	20.90	26.12
	100.00	180.00	3.395	2401.47	1.80	0.960	158.50	20.18	21.80	20.92	26.15

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s KRIDL
Name of Work	:	Improvements to roads and drains at Kodigehalli village from 1st to 3rd cross and other roads in ward No. 08, Kodigehalli
No.of Sample Tested	:	3
Date of Testing	:	19.01.2019
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}. 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.456	2580.43	1.80	0.960	38.56	19.60	21.17	20.32	25.40
2	50.00	90.00	0.459	2597.41	1.80	0.960	38.42	19.50	21.06	20.22	25.27
3	50.00	90.00	0.570	3225.54	1.80	0.960	38.56	19.60	21.17	20.32	25.40

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